

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
22 July 2004 (22.07.2004)

PCT

(10) International Publication Number  
**WO 2004/060292 A2**

(51) International Patent Classification<sup>7</sup>: **A61K** Raymond [US/US]; 9 McElroy Lane, Belle Mead, NJ 08502 (US).

(21) International Application Number:  
**PCT/US2003/040790** (74) Agent: SANTINI, Anthony, M.; Avon Products, INC., Avon Place, Suffern, NY 10901 (US).

(22) International Filing Date:  
19 December 2003 (19.12.2003)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English  
(26) Publication Language: English  
(30) Priority Data:  
10/331,069 27 December 2002 (27.12.2002) US

(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): AVON PRODUCTS, INC. [US/US]; Avon Place, Suffern, NY 10901 (US).

**Published:**

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(72) Inventors; and  
(75) Inventors/Applicants (*for US only*): McNAMARA, William, E. [US/US]; 65 Grand Avenue, Middletown, NY 10940 (US). MCKIE, Derrick, B. [US/US]; 194 Hancock Street, Brooklyn, NY 11216-2104 (US). KUREK, John, S. [US/US]; 287 Reservoir Road, Goshen, NY 10924 (US). MILOW, Clifford, A. [US/US]; 55 Tanager Road, Monroe, NY 10950 (US). GARRISON, Mark [US/US]; 11 Mary Beth Drive, Suffern, NY 10950 (US). CEN,

WO 2004/060292 A2

(54) Title: NON-PRESSURIZED POST-APPLICATION EXPANDING COMPOSITION

(57) Abstract: A post-application expanding composition for application to hair fibers of the scalp, eyebrows or eyelashes is provided. The composition comprises at least one surfactant, a solvent for the surfactant, and a volatile agent in an amount that will cause the surfactant and solvent to interact and foam on the hair fibers thereby producing an expanded composition. The composition further contains a film-forming agent in an amount effective to form a film which when set fixes at least a portion of the expanded composition in its expanded state. The volatile agent is solubilized in the composition, and is further dispersed throughout the composition in nanometer size droplets or generated in situ on the hair fibers or immediately prior to application thereto so that the composition is storable in a non-pressure container.